

ISSIBLE LYGGIL

FIG.1 PRIOR ART

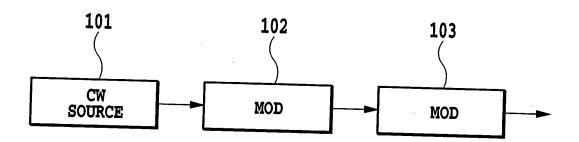
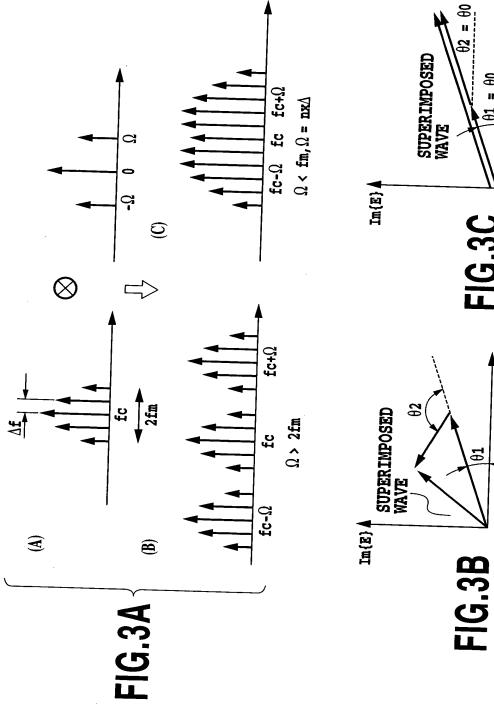


FIG.2



D9911613 . O70601

Re {E} ADDITION OF TWO MODES WITH SAME PHASE θ 1 = θ 0 FIG.3C Re{E} ADDITION OF TWO MODES WITH DIFFERENT PHASES

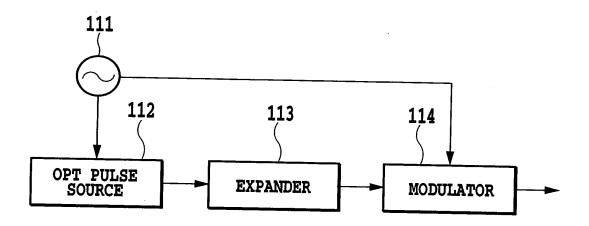


FIG.4

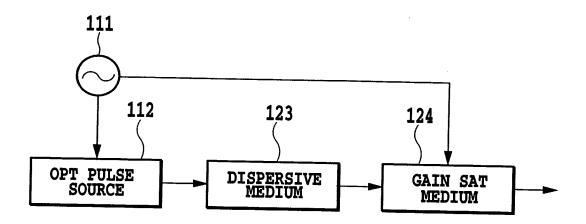


FIG.5

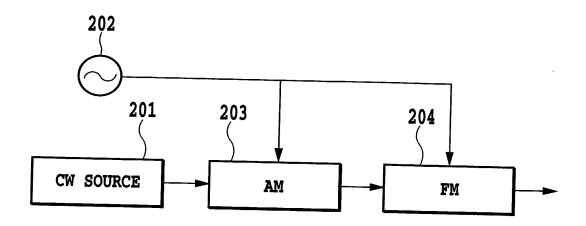
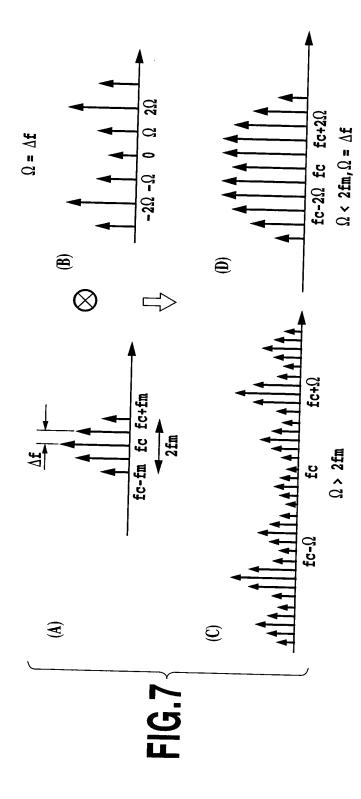


FIG.6



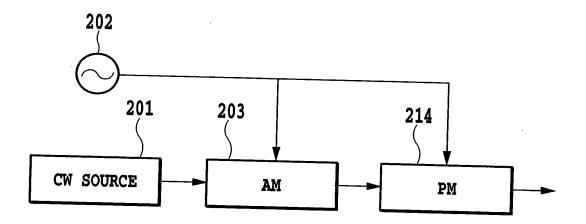


FIG.8

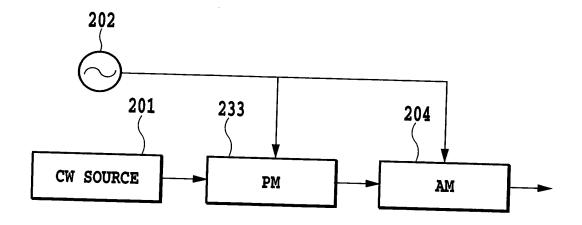


FIG.9

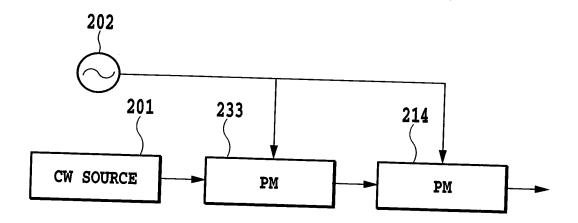


FIG.10

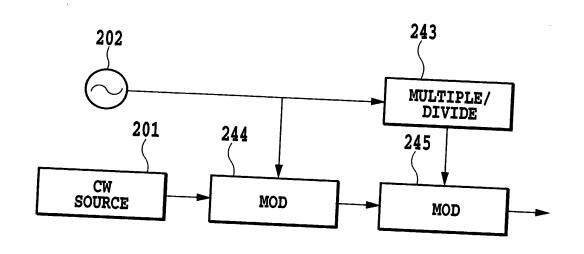


FIG.11

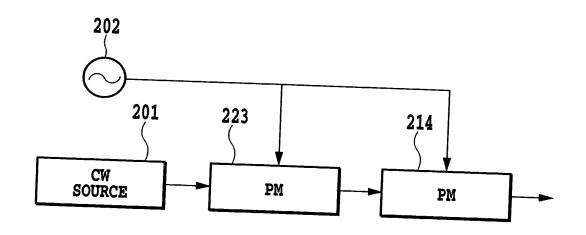


FIG.12

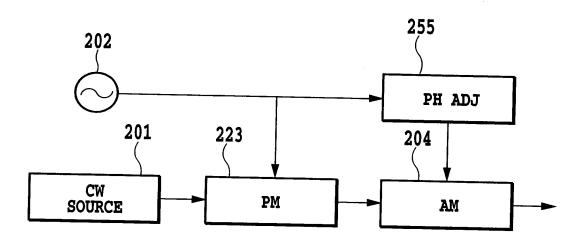


FIG.13

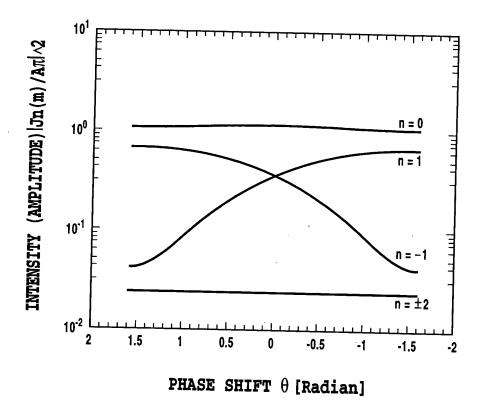
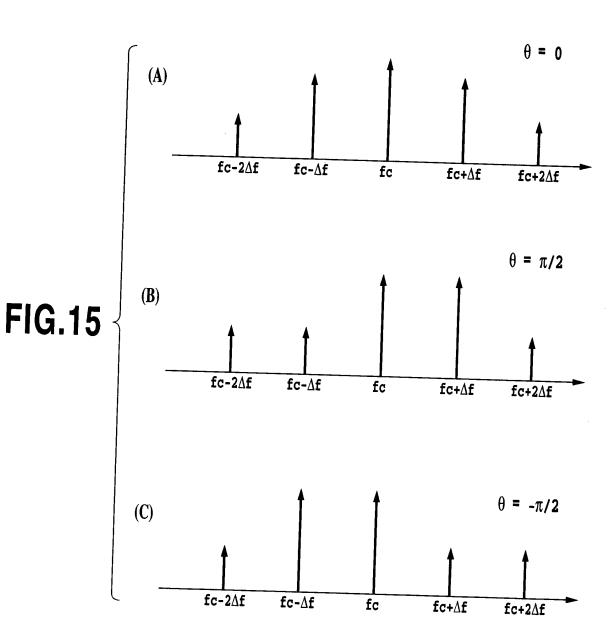


FIG.14



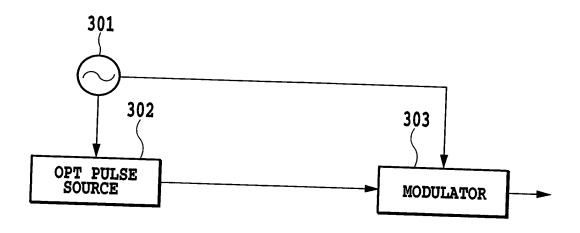


FIG.16

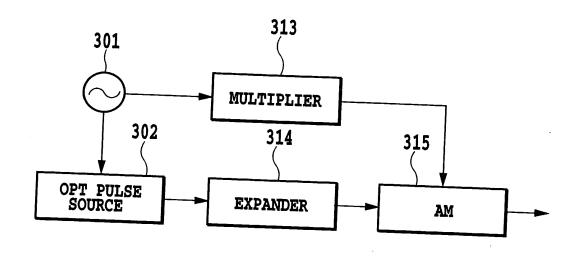


FIG.17

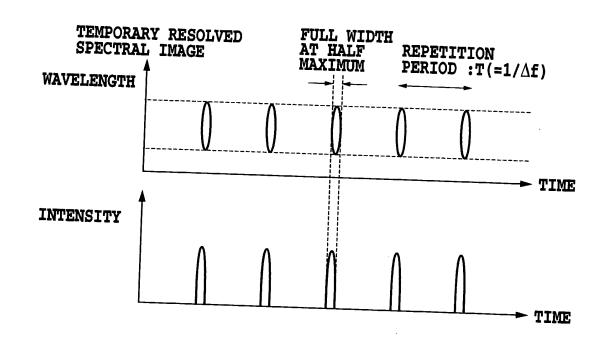


FIG.18

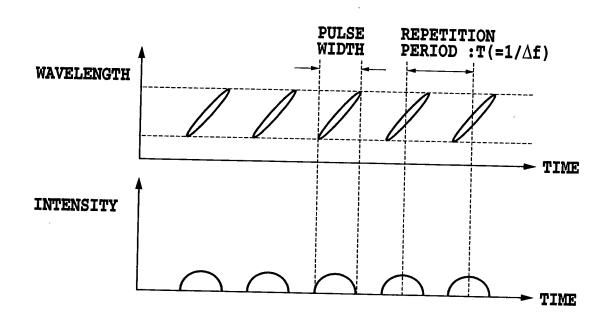


FIG.19

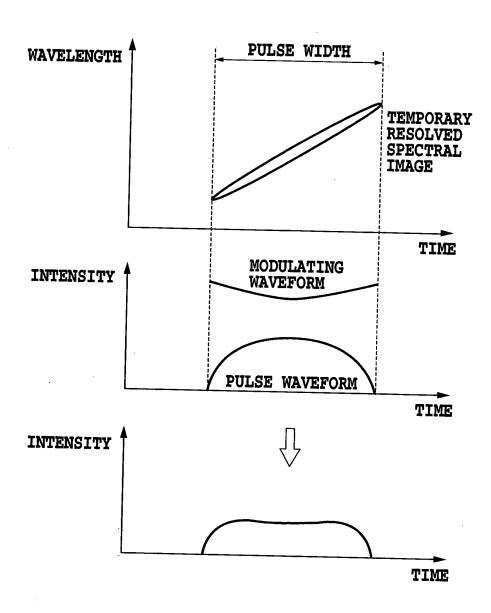


FIG.20

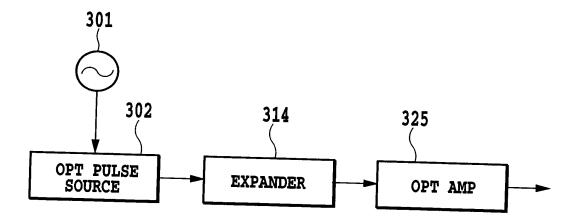


FIG.21

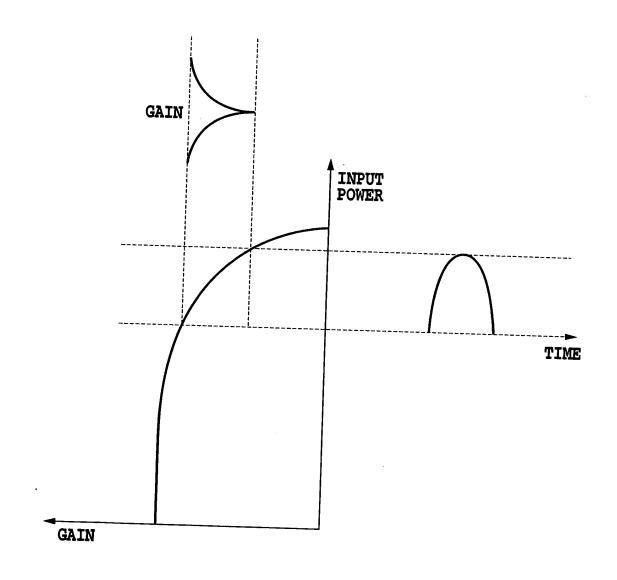


FIG.22

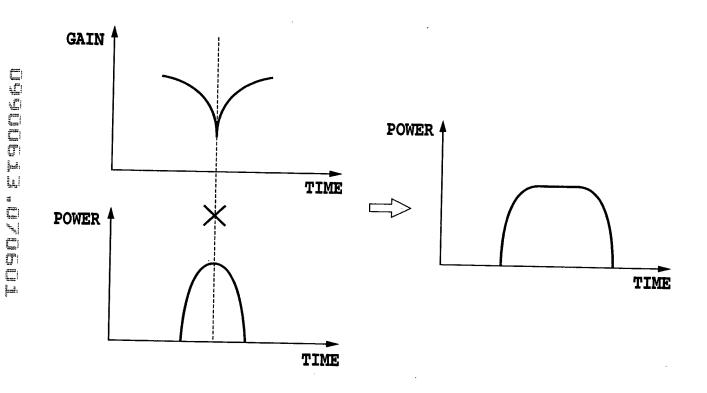


FIG.23

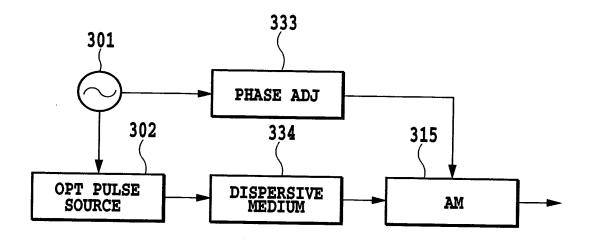


FIG.24

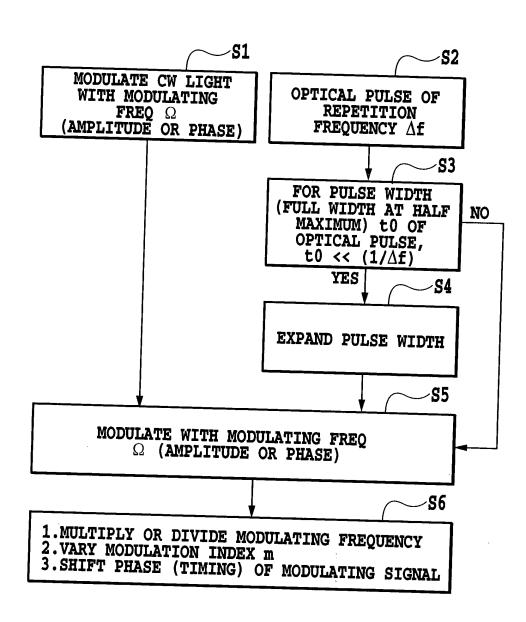


FIG.25



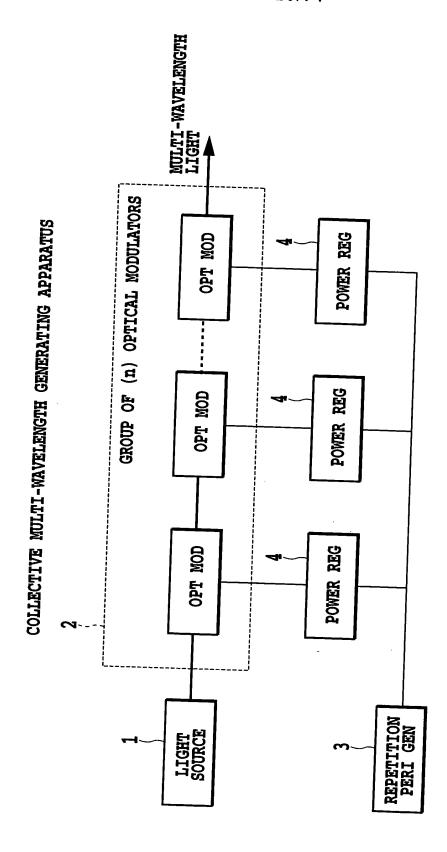


FIG.26

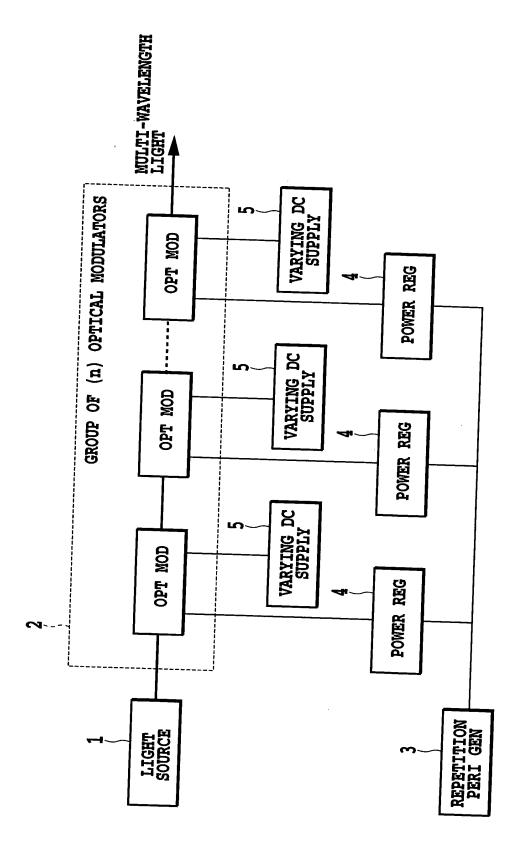
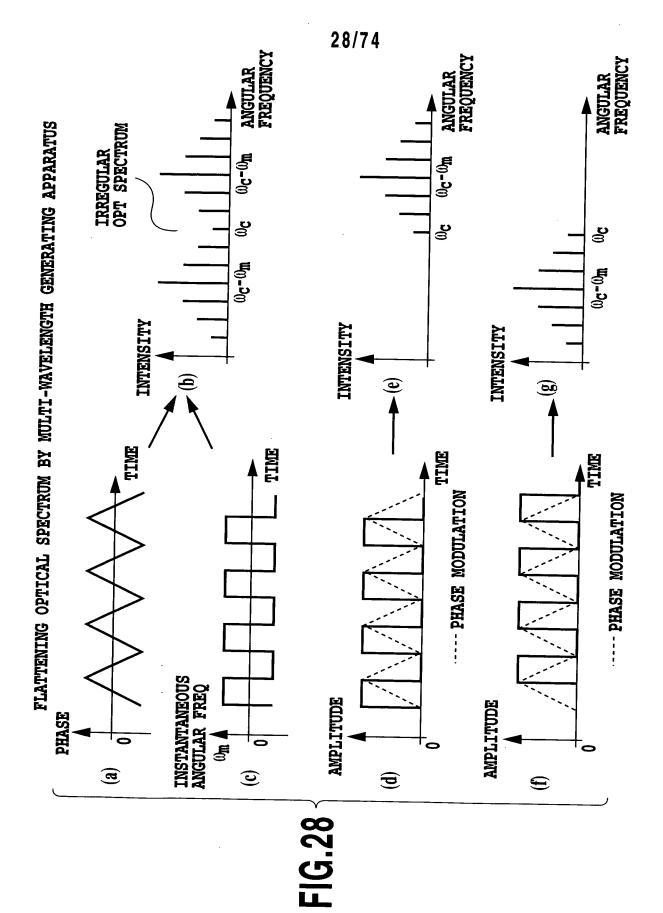
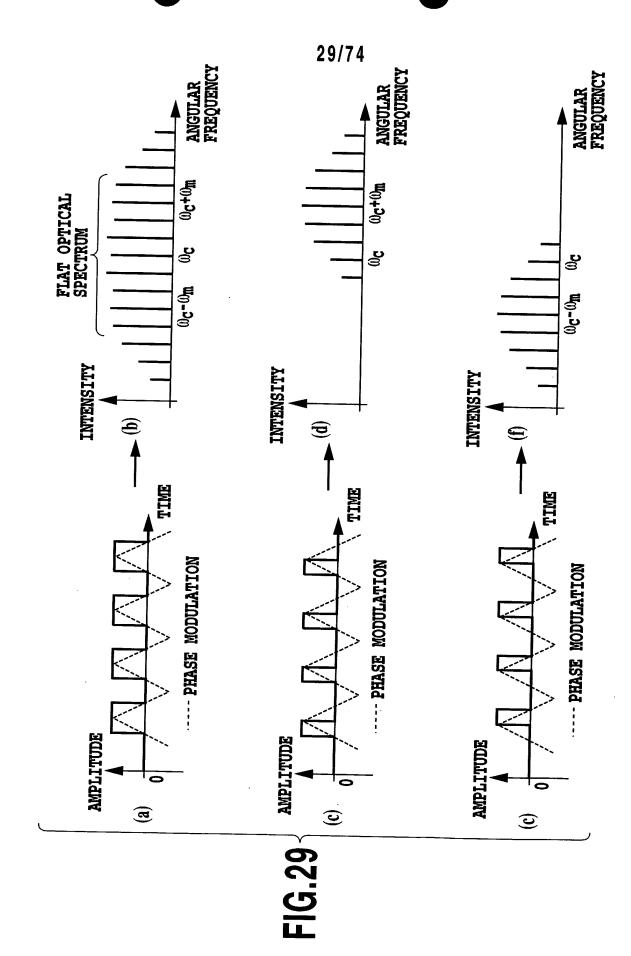
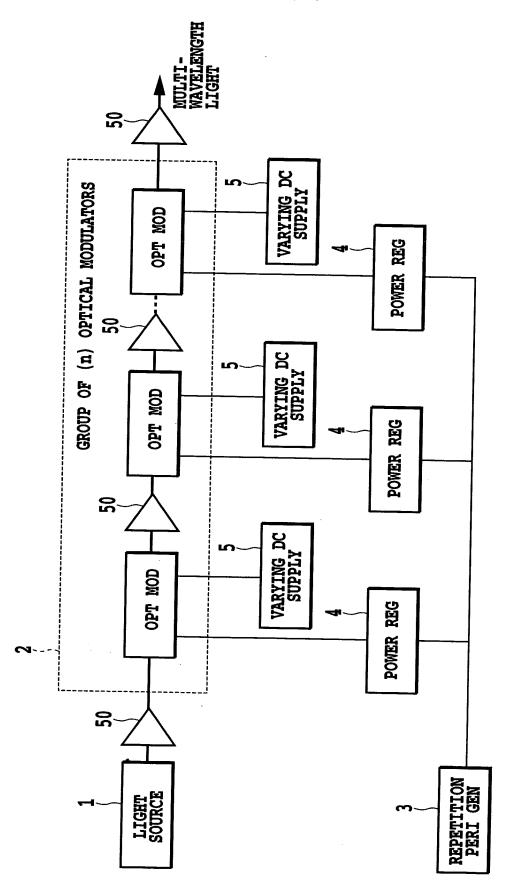


FIG.27

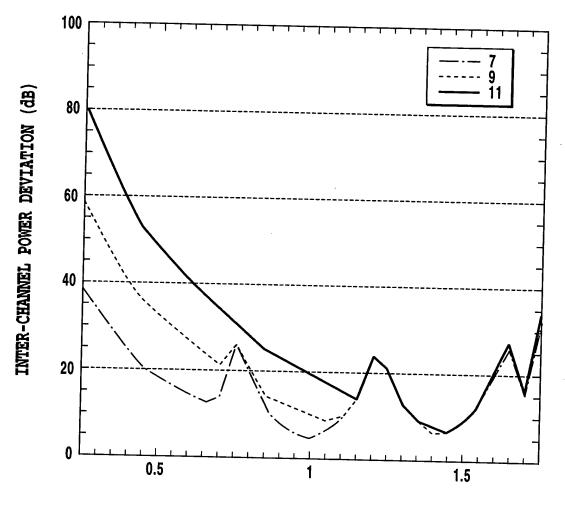






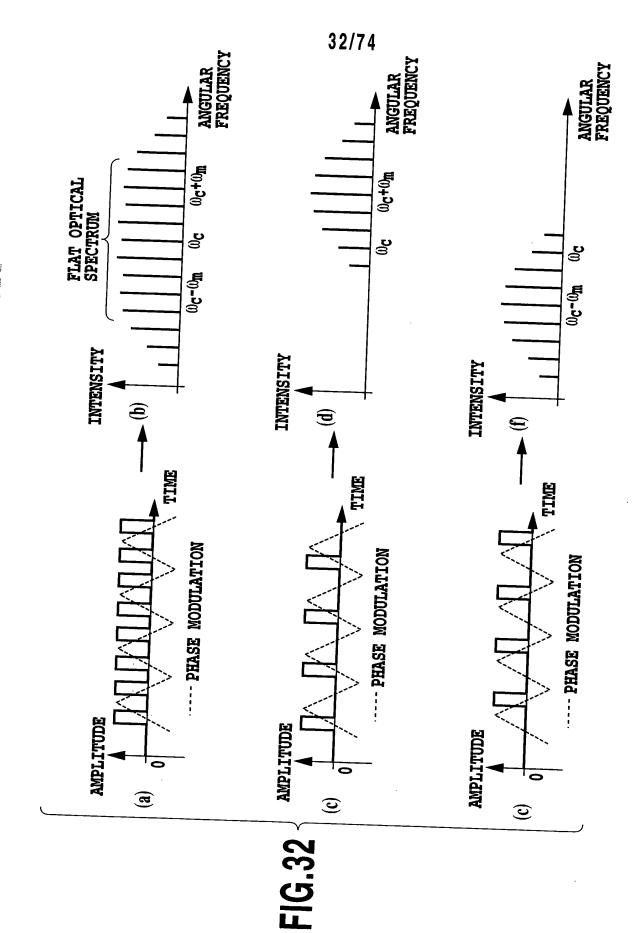
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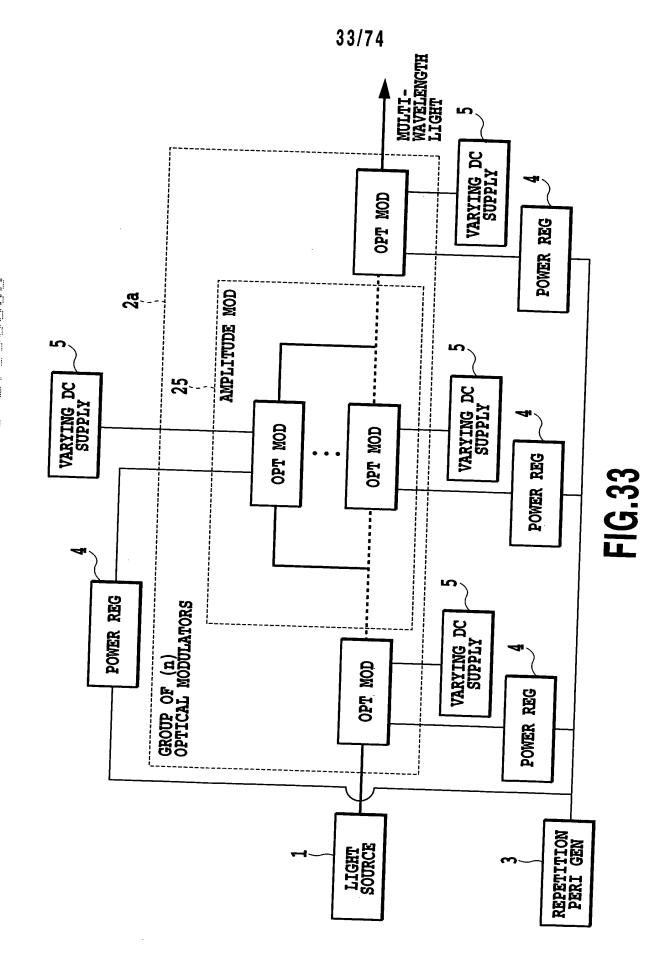
FIG.30



PHASE MODULATION INDEX (π)

FIG.31





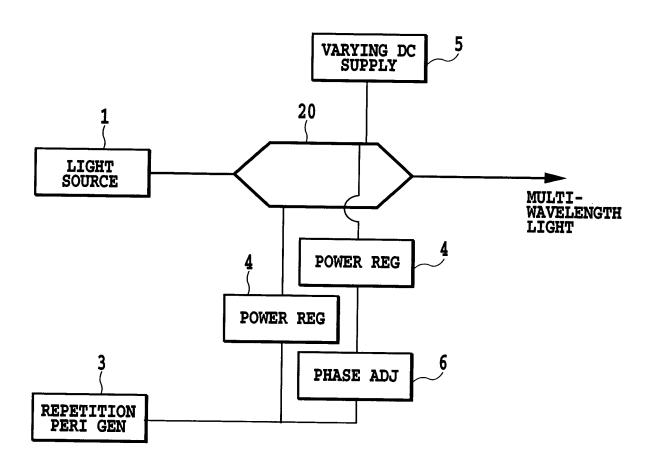


FIG.34

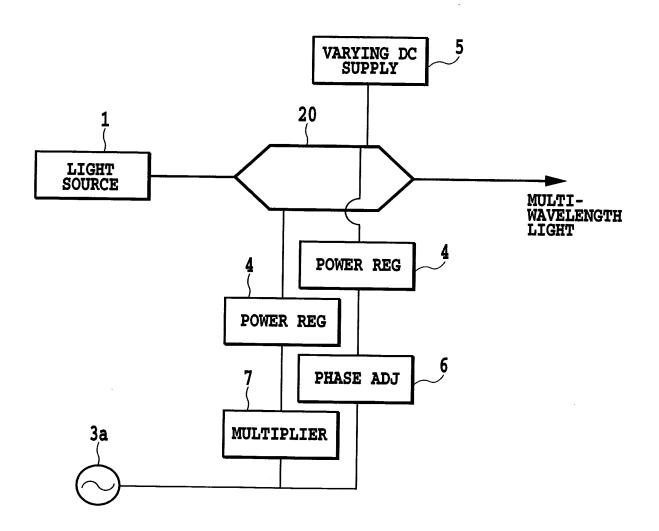


FIG.35

FIG.36

EXPERIMENTAL RESULT USING MACH-ZEHNDER

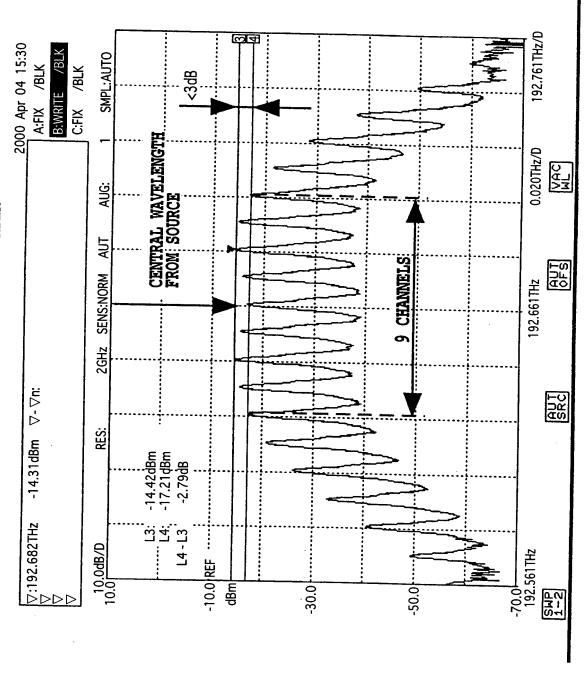
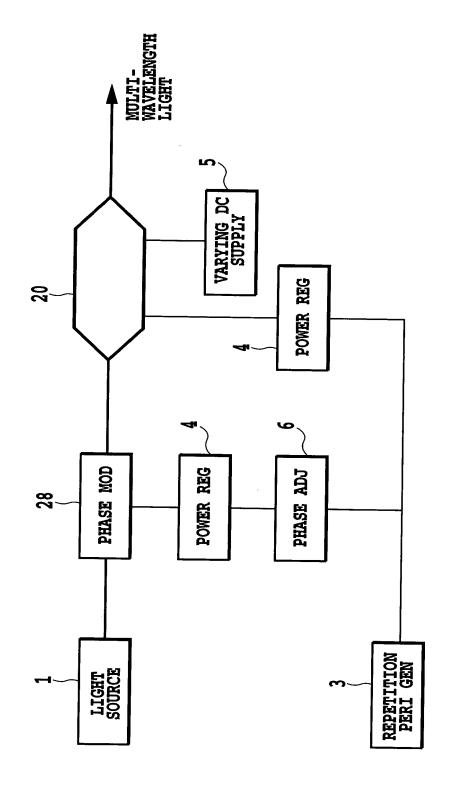
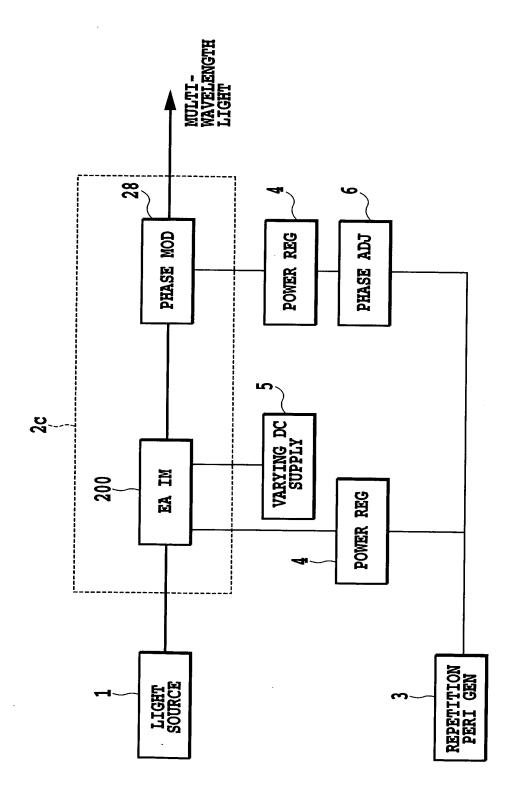


FIG.37



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FIG.38



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FIG.39

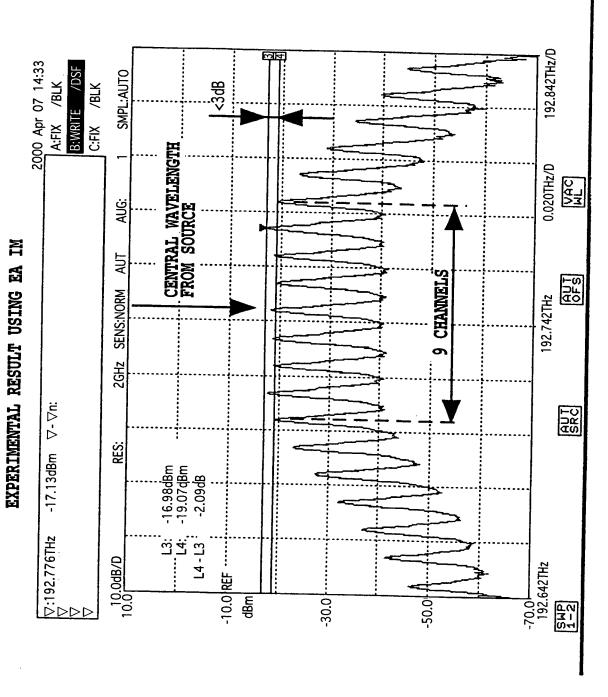


FIG.40

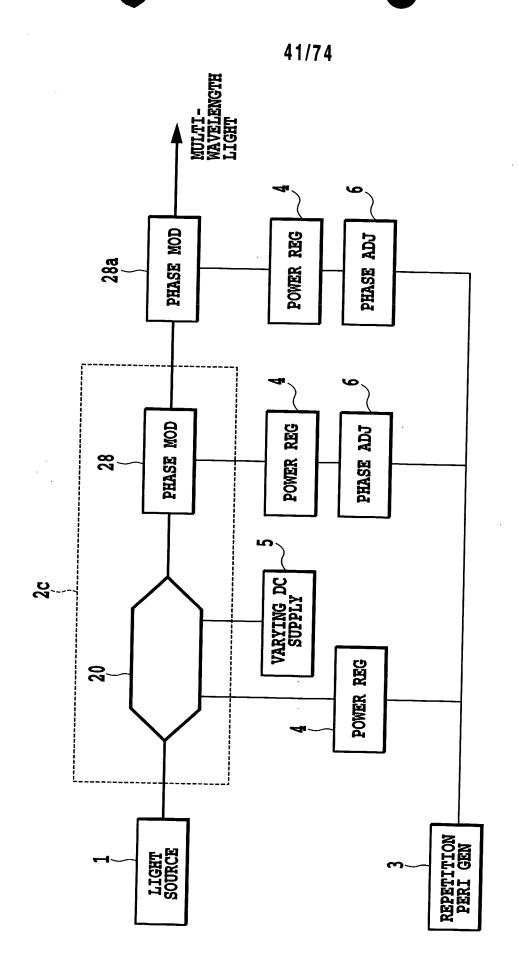


FIG.41

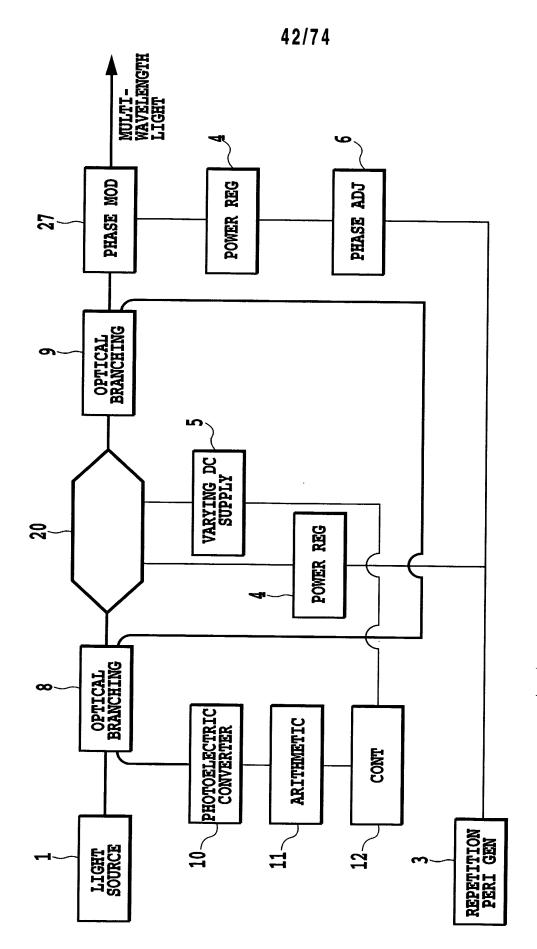


FIG.42

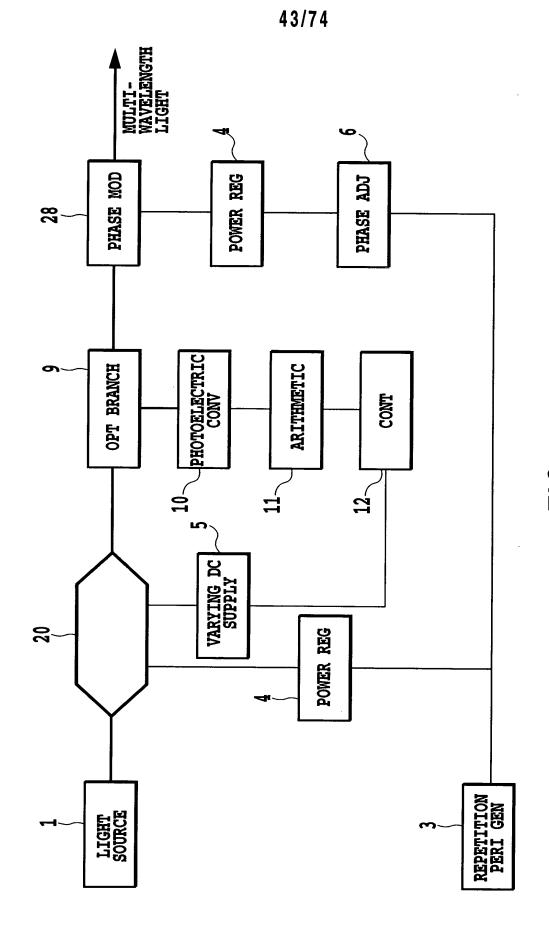


FIG.43

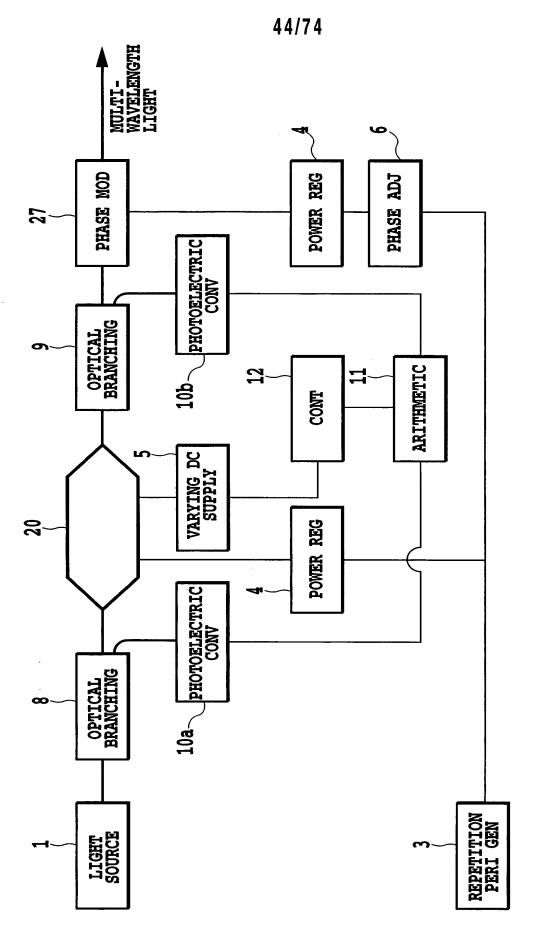


FIG.44

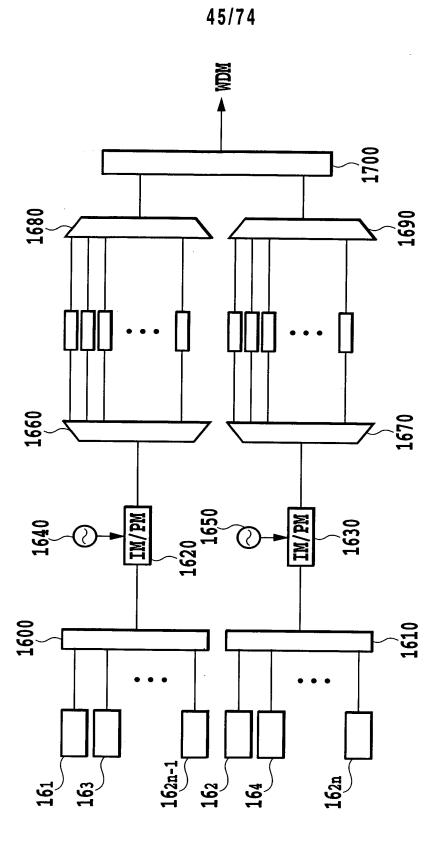


FIG.45

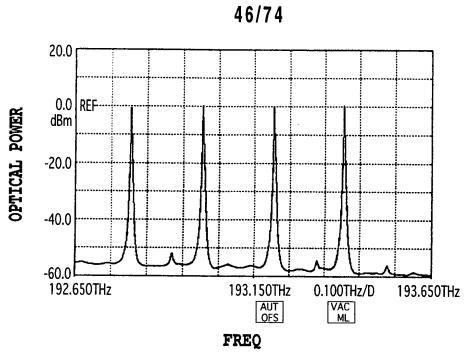


FIG.46A

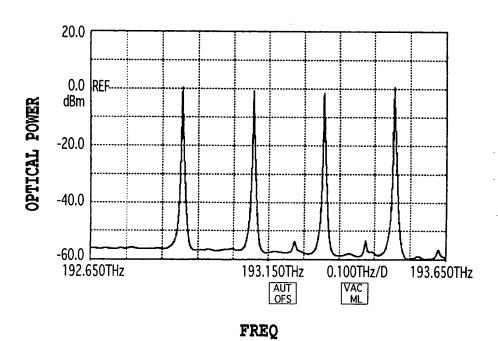


FIG.46B

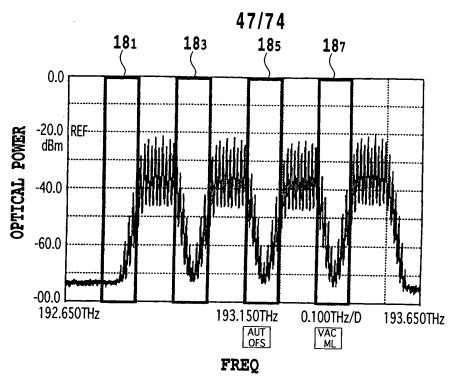


FIG.47A

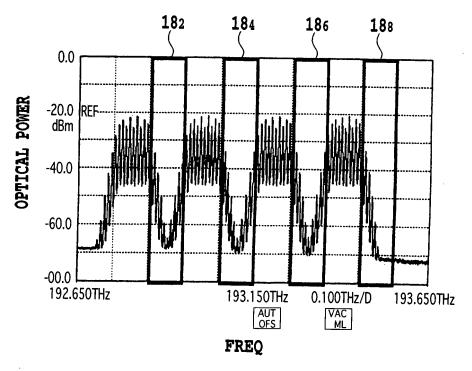
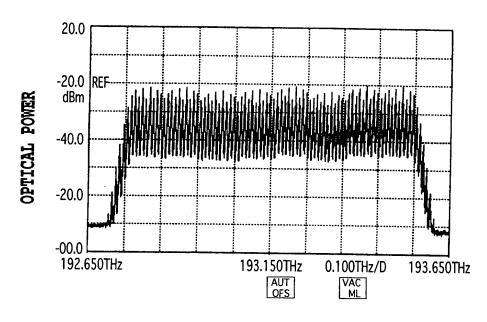


FIG.47B



FREQ

FIG.48

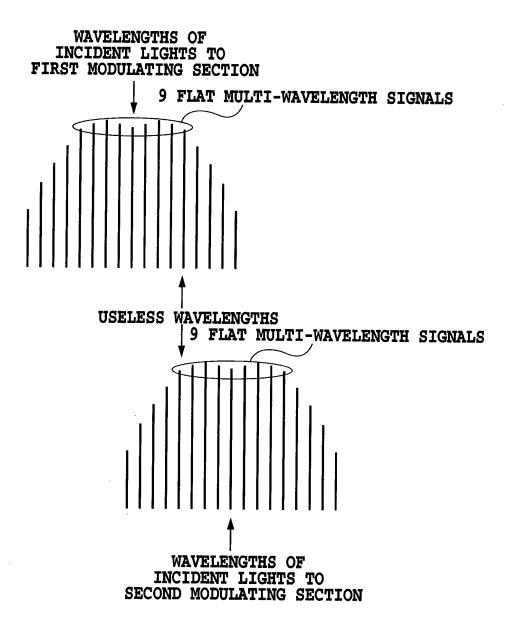


FIG.49A

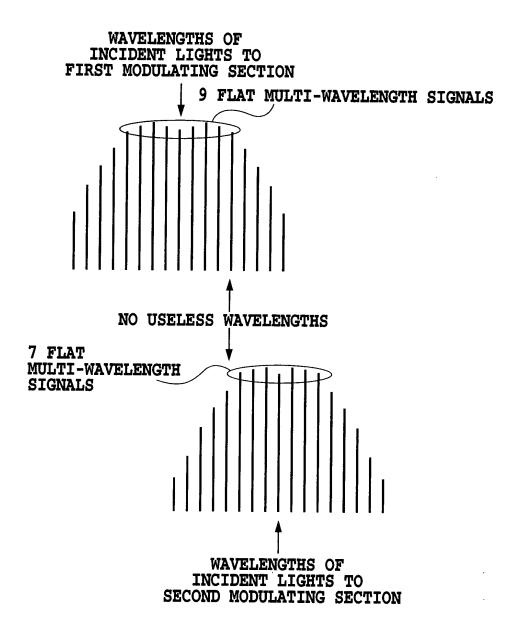


FIG.49B

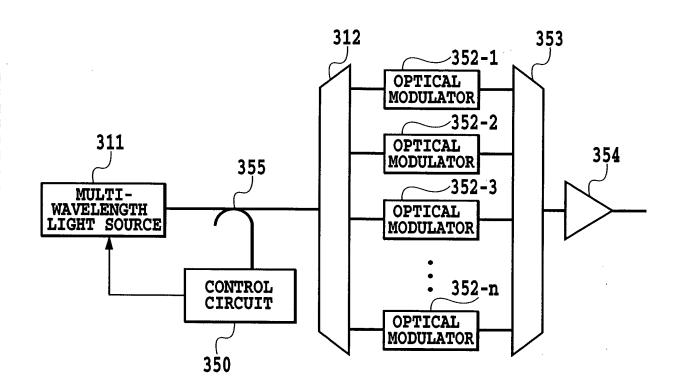


FIG.50

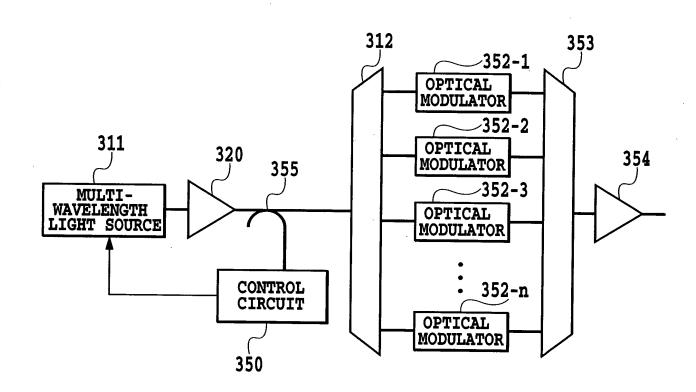


FIG.51

WAVELENGTH-MULTIPLEXED TRANSMISSION SYSTEM USING COHERENT MULTI-WAVELENGTH SIGNAL GENERATING APPARATUS

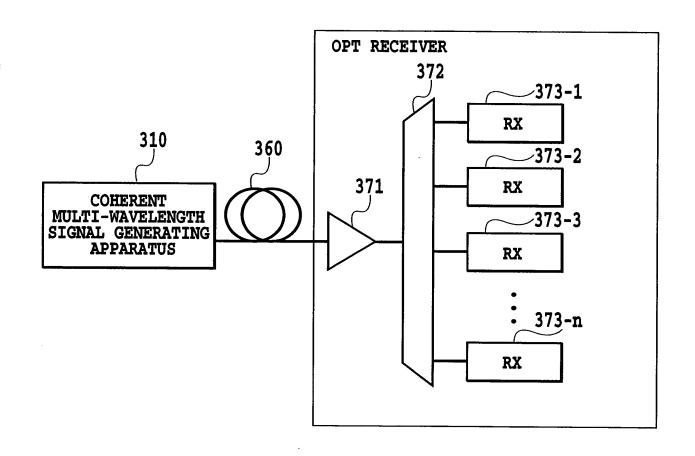
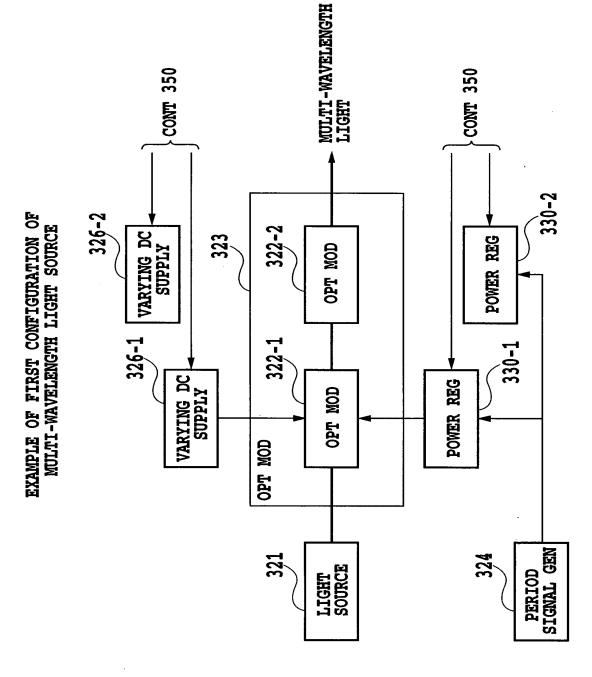


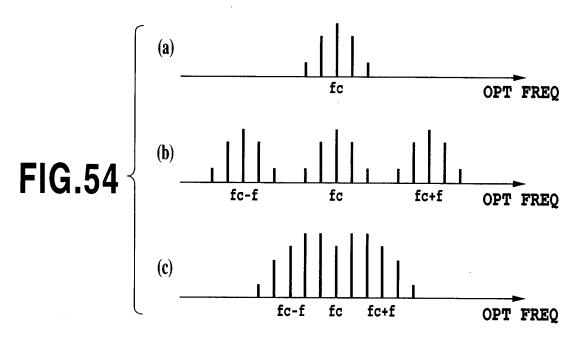
FIG.52



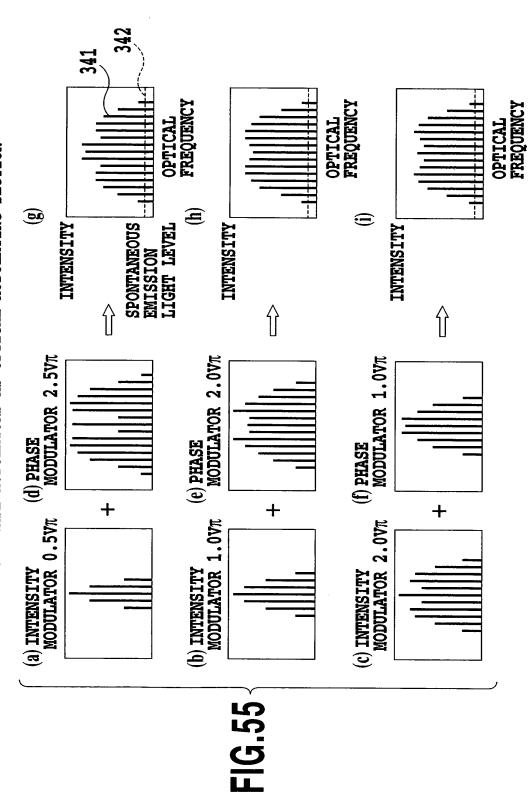
Desidosis dynalis

FIG.53

FIG. 53 PRINCIPLE OF GENERATION OF MULTI-WAVELENGTH LIGHT FROM MULTI-WAVELENGTH LIGHT SOURCE



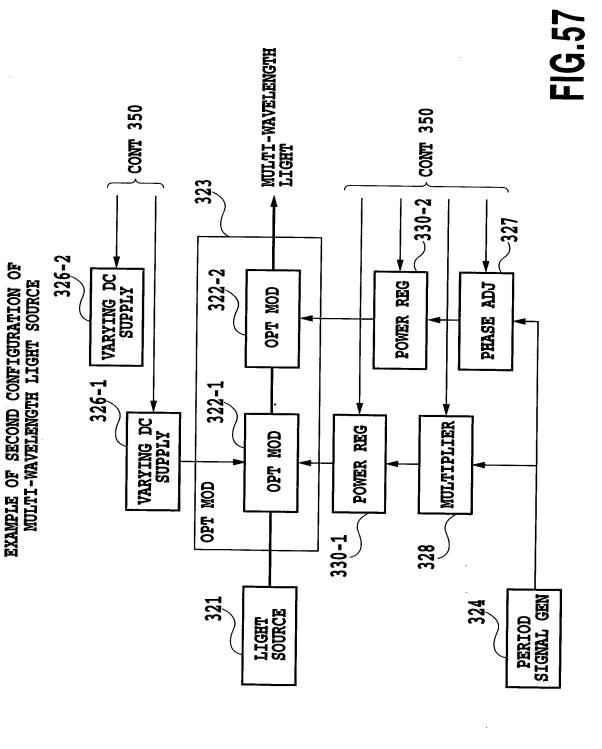
SHAPE CONTROL OF OPTICAL SPECTRUM USING INTENSITY AND PHASE MODULATORS AS OPTICAL MODULATING SECTION



OPTICAL SPECTRUM OF MULTI-WAVELENGTH LIGHT AMPLIFIED BY OPTICAL AMPLIFIER

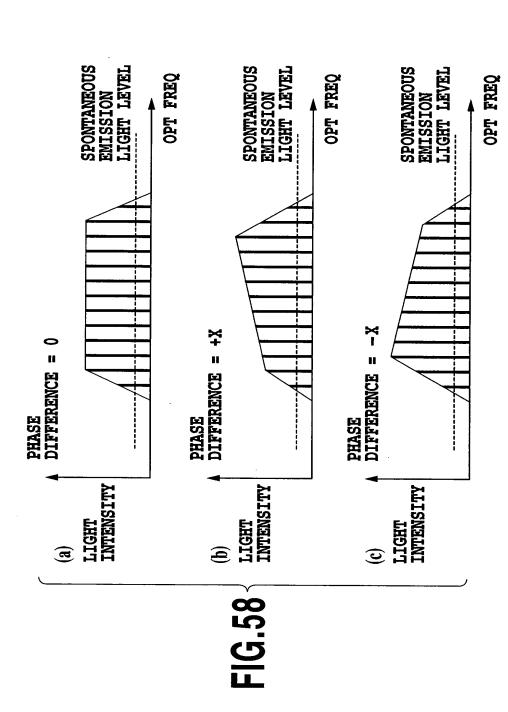
343:SPONTANEOUS EMISSION LIGHT GENERATED BY OPTICAL AMP WAVELENGTH 341:CARRIER 342:SPONTANEOUS EMISSION LIGHT ASSOCIATED WITH MULTI-WAVELENGTH SOURCE LIGHT INTENSITY (LOGARITHMIC AXIS)

FIG.56

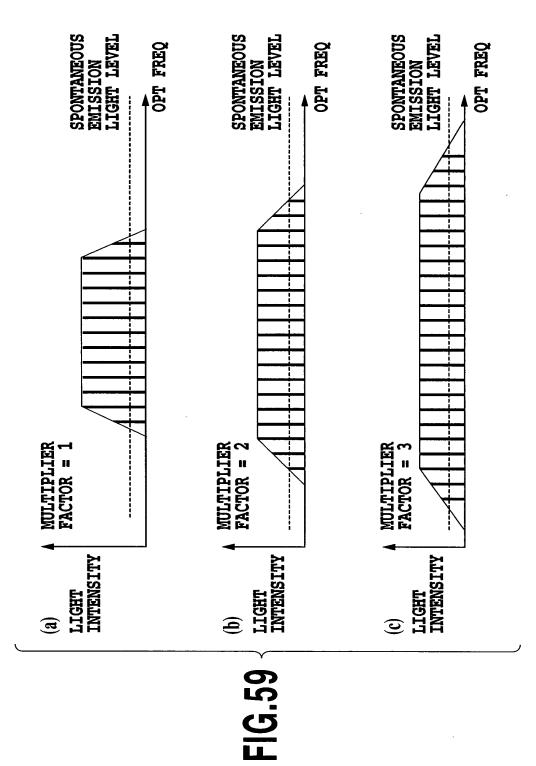


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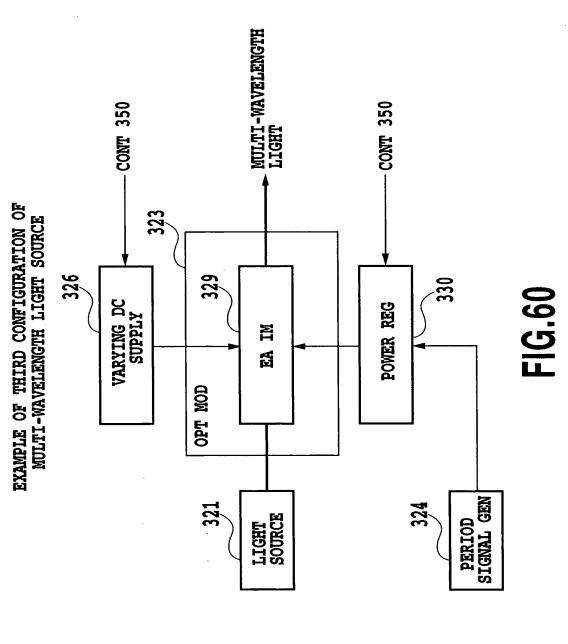




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SHAPE CONTROL OF OPTICAL SPECTRUM BY REGULATING PERIOD SIGNALS



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FIG.61

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FOURTH EXAMPLE OF CONFIGURATION OF MULTI-WAVELENGTH LIGHT SOURCE

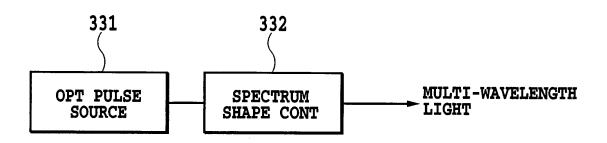


FIG.62

PRINCIPLE OF ADIABATIC COMPRESSION WITH DISPERSION REDUCING FIBER

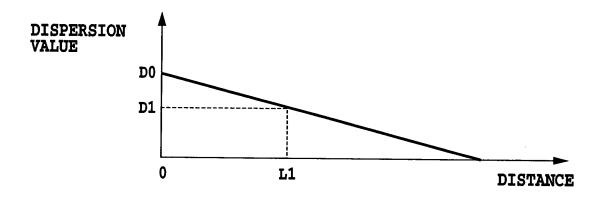


FIG.63A

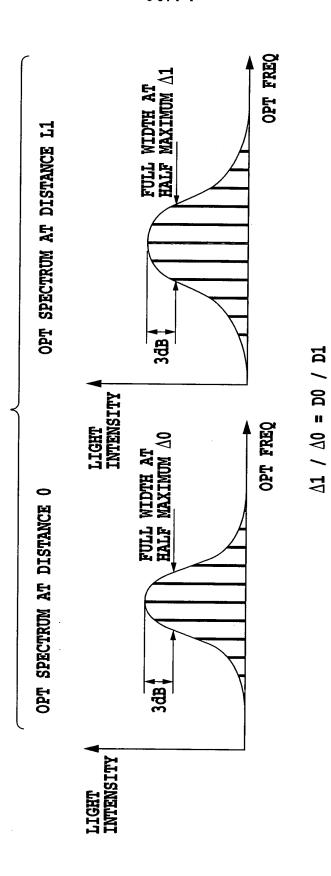


FIG.63B

RELATIONSHIP BETWEEN OPTICAL SPECTRUM OF COHERENT COMPONENTS OF MULTI-WAVELENGTH LIGHT AND TRANSMISSION CHARACTERISTIC OF DEMULTIPLEXER

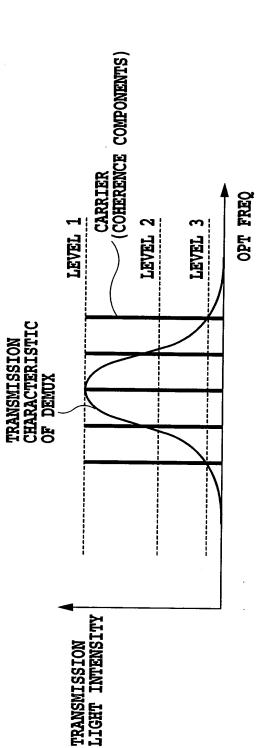


FIG.64

RELATIONSHIP BETWEEN STIMULATED EMISSION LIGHT AND SPONTANEOUS EMISSION LIGHT FROM SEMICONDUCTOR LASER

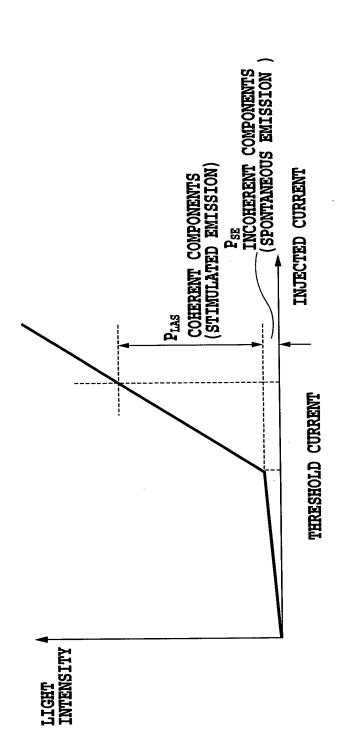


FIG.65

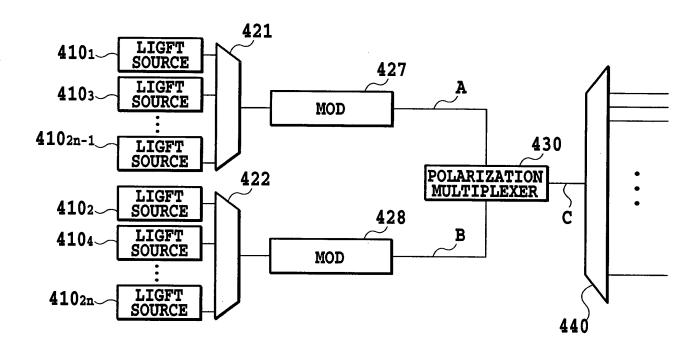
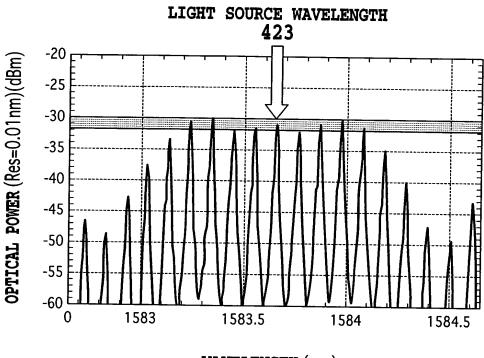


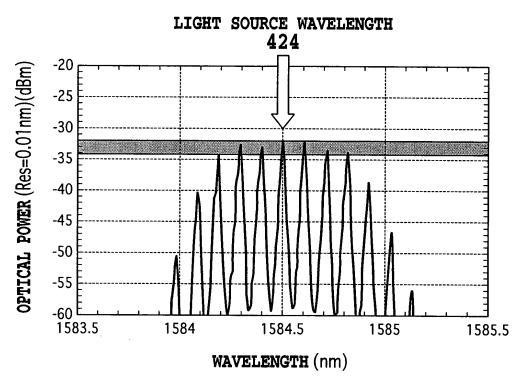
FIG.66



WAVELENGTH (nm)

ODD-NUMBER-TH LIGHT SOURCE WAVELENGTH AND SIDE MODES

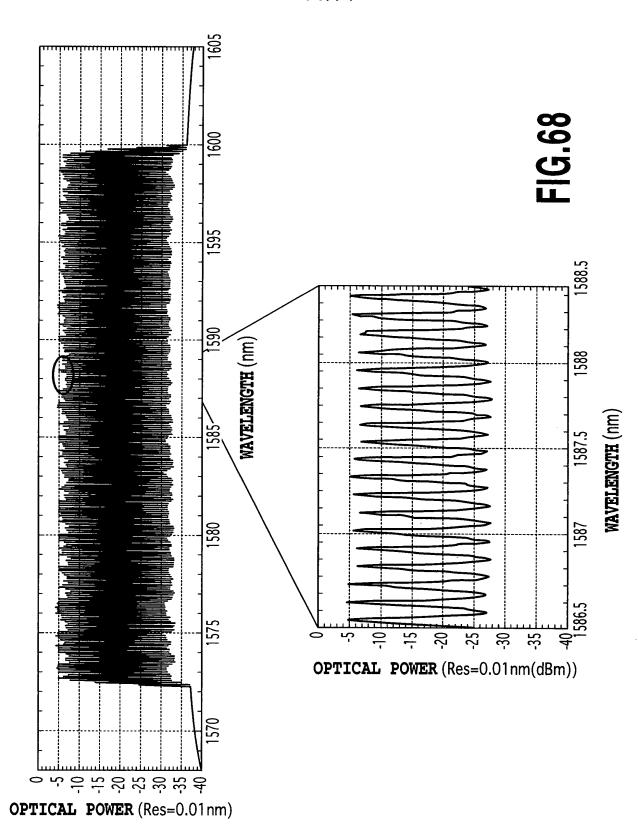
FIG.67A

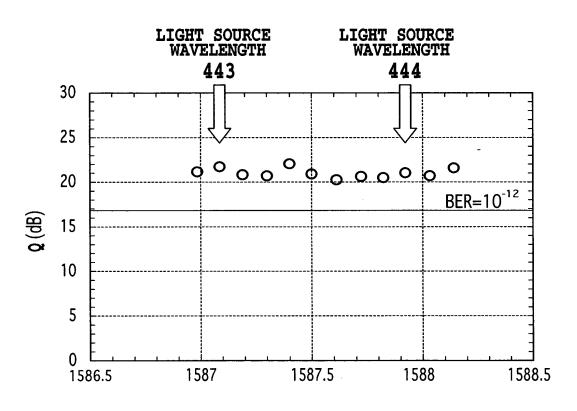


EVEN-NUMBER-TH LIGHT SOURCE WAVELENGTH AND SIDE MODES

FIG.67B

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WAVELENGTH (nm)

FIG.69

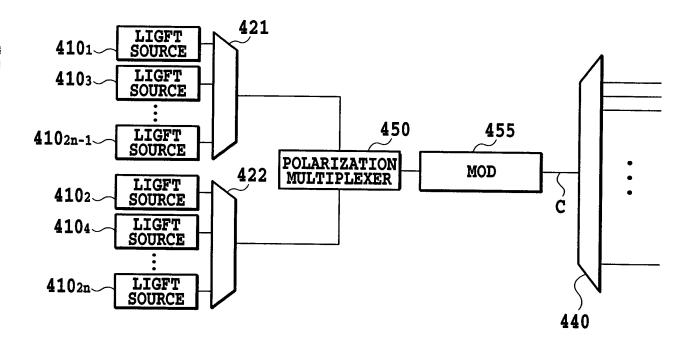


FIG.70

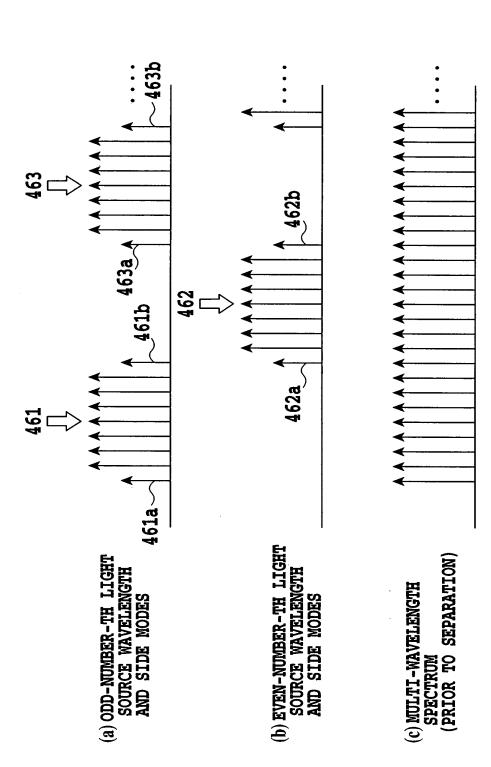


FIG.71